EDUCATION   **University of Texas at Austin**, MS in Electrical Engineering, 1974

Johns Hopkins University, Bachelor of Engineering Science (BES), 1972
  Tau Beta Pi, Eta Kappu Nu

EXPERIENCE   **National Institute of Standards and Technology (NIST), October 1997 to Present**

   Serving as an information technology specialist providing project direction and security engineering expertise. Technical advisor to the NIST Certification and Accreditation project. Chair the national common criteria Interpretations Board, responsible for national interpretations to the Common Criteria (CC) and the Common Evaluation Methodology (CEM) for information technology evaluations. NIST representative on the Observation Decision Review Board, providing technical direction for common criteria evaluations within the United States. Co-technical leader, with National Security Agency representative, for the development of Federal recommendations for operating system security. Served as NIST senior technical representative for the Common Criteria Project, an international initiative to develop and implement a common computing security criteria. A major contributor to the common criteria, common evaluation methodology, national evaluation scheme, and efforts to increase the trustworthiness of commercial off the shelf information technology. Internationally recognized as an expert in information system security.

THE BOEING COMPANY (1984-1997)

   Served as Security Architect for The Boeing Company successfully leading effort to develop a corporate-wide security architecture for distributed computing. Served as system security engineer on Boeing team developing internal, enterprise-wide system for single-signon, access control, and account management. Served as the security engineer for the US Army's Enhanced Tactical Radar Correlator (ETRAC) program. Previously was lead hardware engineer for Boeing's very high-assurance, multi-level secure (MLS) computer network. Served as lead hardware engineer for an advanced computer image generation system, supervising 9 engineers and 4 technicians, assigning day-to-day tasking to maintain schedule within budget.

MAJOR - US ARMY RESERVE

   Currently member of the Individual Ready Reserve (IRR). Previous assignments include: Information Operations Red Team of the Land Information Warfare Activity (LIWA); US Army Computer Emergency Response Team (ACERT); Deputy Chief, Information Assurance Division, J6, USSOUTHCOM; technical support to the accreditor, Intelligence and Security Command; and Signal Officer for the Walla Walla District of the Corps of Engineers.

PREVIOUS POSITIONS

   Two years as a senior digital hardware engineer at Field Station Augsburg, a facility of the US Army Intelligence and Security Command. Seven years on active duty in the US Army, serving as: graduate-level computer science instructor, infantry battalion Signal Officer, and a test and evaluation officer with the U.S. Army Electronic Proving Grounds.

SECURITY   TS/SI-TK-G
CLEARANCE

PUBLICATIONS   *The Boeing MLS LAN: Headed Towards an INFOSEC Security Solution*; 12th National Computer Security Conference, October 1989. (co-author)

Tutorial titled "Developing a Commercial Security Architecture" at 11th Annual Computer Security Applications Conference, December 1995, New Orleans, Louisiana.

Common Barriers to IT Security, background paper for "Designing the Digital Government of the 21st Century: A Multidisciplinary Workshop" sponsored by the Center for Technology in Government at the University at Albany and by the National Science Foundation. (http://www.ctg.albany.edu/research/workshop/background.html)

PKI ASSESSMENT GUIDELINES (PAG), Served as member of the editorial board for this publication of the American Bar Association, Public review draft available at: http://www.abanet.org/scitech/ec/isc/pag/pag.html

NIST Interagency Report (NISTIR 6462) *CSPP - Guidance for COTS Security Protection Profiles*, formerly *CS2 - Protection Profile Guidance for Near-Term COTS*; available at http://csrc.nist.gov/publications/nistir/index.html

CSPP-OS - COTS Security Protection Profile - Operating Systems. Currently in draft at http://csrc.nist.gov/cc/pp/pplist.htm#CS2-OS.

NIST Special Publication 800-27, *Engineering Principles for IT Security (EP-ITS)*, NIST recommendation. Co-author and project development lead. http://csrc.nist.gov/publications/nistpubs/index.html

NIST Special Publication 800-30, *Risk Management Guideline*, Co-author and project development lead. http://csrc.nist.gov/publications/nistpubs/index.html

NIST Special Publication 800-33, *Underlying Technical Models for IT Security*. http://csrc.nist.gov/publications/nistpubs/index.html